

## ABSTRACT OF THE DISCLOSURE

A mobile communications network and data delivery method in a mobile communications network is provided that  
5 can implement connectionless transfer in the mobile communications network, and obviate the need for sending a call control signal for data delivery. An IP address is assigned to each of the nodes of the mobile communications network including routing nodes (a gate  
10 node and repeater node, for example) and edge nodes and to each mobile station. A routing node, receiving data including the IP address of a mobile station, carries out routing of the data in accordance with routing information. The edge node that receives the data routed by the routing  
15 node, transmits the data to the mobile station corresponding to the IP address of the mobile station added to the data. The IP addresses are also applicable to delivering data to users of the same group, or carrying out control like handover.